

1. PRODUCT NAME

Tenon® Siloxane Sealer

2. MANUFACTURER

TCC Materials®
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3. PRODUCT DESCRIPTION

Tenon® Siloxane Sealer is a clear, solvent-based concrete sealer that penetrates and reacts chemically within the capillaries of the concrete or masonry to protect against moisture penetration and the spalling, freeze damage, and rebar corrosion which moisture can cause. It is suitable for use to protect and seal fully-cured fresh concrete, existing concrete, brick, stone, terrazzo, stucco, architectural concrete, and other cementitious materials. Siloxane Sealer is used for above-grade exterior applications that are not subject to hydrostatic pressure.

Features and Benefits

- Protects and seals
- Repels water, with early water repellency
- Once cured, pronounced water beading effect
- Dries tack free
- Natural-looking invisible protection
- Non-staining, colorless, non-yellowing
- Ready to use (do not dilute)
- High alkali resistance
- Breathable and deep-penetrating
- Easy to apply with sprayer and roller
- Low volatility
- Protects from effects of rain and other water penetration, chemicals, salt, freeze-thaw, and smog

Uses

- Above-grade exterior applications
- Vertical or horizontal applications
- Concrete or masonry applications
- Fully cured new or existing applications
- Terrazzo, brick, stucco, burnished or split-faced block, natural and synthetic stone, stucco, and other cementitious materials

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com or contact TCC Materials® at 651-688-9116 (7:30 AM to 4:00 PM Central US Time).

CAUTIONS

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Tenon® brand product (s) under normal environmental and working conditions. Because each project is different, neither Tenon® nor TCC Materials® can be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Typical Results of Tenon® Siloxane Sealer	
Composition and Materials	An oligomeric, organosiloxane water repellent. Tenon® products are manufactured with only the finest quality raw materials available and close quality-control is practiced.
Density	7.37 lbs.
Flash Point	>100°F (> 37°C)
Typical Drying Time @ 70°F	1-2 hour (touch) 2-4 hours (traffic)
VOC Content*	>700 g/l
A.I.M. Category	Waterproofing Sealers and Treatments Maximum VOC 600 g/l
Applicable Standards	ASTM C-666 Resistance of Concrete to Rapid Freezing and Thawing ASTM C672 Scaling Resistance NCHRP 244 (water absorption, % water vapor transmission and % reduction in chloride intrusion)

Note: Exceeds VOC content limit. Exceedance fee has been paid.

These dry times are dependent on normal drying conditions. Cool temperatures or high humidity will slow the drying time.

Packaging

- 1 gal. bottle (3.78 L) – Product #120826
- 5 gal. pail (18.93 L) – Product #120825
- 55 gal. drum (208 L) – Product #120934

Shelf Life

For best use, the recommended shelf life is 12 months. If shelf life is beyond 12 months, please contact your distributor. Store in the original labeled container, away from moisture, out of direct sunlight. **DO NOT STORE NEAR HEAT OR OPEN FLAME.** Keep containers tightly sealed when not in use.

5. INSTALLATION

Preparation

- Read all directions before starting work. Read and understand SDS pages for safety precautions prior to use.
- Remove all loose or unsound materials prior to application. Thoroughly clean surface of dirt, dust, oil, grease or other contaminants before using.
- Apply only to dry surfaces for optimal performance. Do not apply when rain is expected within 4–6 hours of application.
- If rain has preceded the application, the surface should be allowed to dry for at least 24 hours.
- Check compatibility with the substrate manufacturer prior to placement.
- Keep containers tightly sealed when not in use, and use only in well-ventilated areas.

New Concrete: Water-cure new concrete or use a water-based dissipating curing compound. All fresh concrete should be properly cured (28 days).

Existing Concrete: Repair any cracks or damaged areas. Mechanical abrasion of smooth-finished surfaces may be needed for maximum penetration.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Job Mockups

The manufacturer requires that when its Tenon® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Mixing

- Mixture may be gently stirred to blend prior to use. Do not entrain air.
- Do not dilute.

Application

1. Apply only when air and substrate temperatures are above 40°F (4°C) and the Siloxane Sealer is above 50°F (10°C). For best results, surfaces must be clean and dry.
2. Apply with low-pressure sprayer and back-roll or apply with roller. When using a sprayer, it should be equipped with PVC, viton, or other compatible fittings and hoses as solvents can damage rubber.
3. Apply evenly and sufficiently to wet the substrate completely with a minimum 2 in. (51 mm) run-down on vertical surfaces.
4. It is important to roll the surface to evenly spread the sealer. Surface should have a uniform wet-look until the sealer dries.
5. Roll out any pools that accumulate on the surface after 5 minutes.
6. If any dry areas form before 5 minutes, apply an additional light coat to those dry areas.
7. When applying to split-face block, be sure the block is dry to allow for good penetration with no run-down. If applied to damp block, Siloxane Sealer may react with the water on the surface which may prevent it from achieving a natural look.

Note: Siloxane Sealer may darken the appearance of concrete, especially if it is applied too heavily. A small mock-up in an inconspicuous area is often done to test compatibility with the substrate prior to full application. When applying to existing areas surfaces must be clean and dry.

Cleaning

Use mineral spirits or solvent-based cleaners, such as xylene on tools and equipment. For sprayers, pump the solvent through the spray equipment to remove residue and prevent clogs. For skin contact, wash thoroughly with soap and warm water.

Limitations

- Not for use on gypsum surfaces.
- Sprayers must be equipped with PVC, viton, or other compatible fittings and hoses as rubber or other materials will disintegrate from the solvent.
- Some fumes may be present during application. Use best ventilation practices when applying on interior surfaces. Siloxane is non-toxic in its cured state.
- Dispose of contents/container in accordance with all local and state regulations.
- Keep out of reach of children.

Coverage

Note: The recommended coverage rate for most concrete substrates is 125 sq. ft. per gal. Coverage may vary due to porosity, wind, temperatures, and condition of surfaces.

Approximate Coverage @ 70°F (21°C)	Sq. Ft./Gal.	M ² /L
Bridge decks / ramps	100–200	2.4–4.9
Smooth concrete	150–250	3.7–6.1
Exposed aggregate	100–200	2.4–4.9
Concrete block	40–100	0.9–2.4

6. AVAILABILITY

To locate Tenon® products in your area, please contact:

Phone: 1.651.688.9116
Email: info@tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

8. MAINTENANCE

Normal sweeping, dusting, or mopping. If spillage removes the coating or if traffic wear patterns occur, Siloxane Sealer can be re-applied to the affected area.

9. TECHNICAL SERVICES

Technical Assistance:

Information is available by calling TCC Materials® (hours 7:30 AM to 4:00 PM CST):

Phone: 1.651.688.9116
Email: info@tccmaterials.com
Web: tccmaterials.com

Technical and Safety Literature:

To acquire technical and safety literature, please visit our website at: tccmaterials.com.

10. FILING SYSTEM

Division 9



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